

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |  |
|------------------------|--|
| Attorney Docket No.    | 740270-2915                                |
| First Inventor         | Michael A. LUCAS et al.                    |
| Title                  | SOLENOID ACTUATED FLOW<br>CONTROLLER VALVE |
| Express Mail Label No. |  |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 29]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 7]
5. Oath or Declaration [Total Pages 1]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
6. ☒ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies; or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document  
(if foreign priority is claimed)
16. ☐ Nonpublication request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information:


Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☒ Customer Number or Bar Code Label 22204 or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

|                   |   |                                   |        |                |  |
|-------------------|---|-----------------------------------|--------|----------------|--|
| Name              |   |                                   |        |                |  |
| Address           |   |                                   |        |                |  |
| City              | State   | Zip Code                          |        |                |  |
| Country           | Telephone   | Fax                               |        |                |  |
| Name (Print/Type) | Tim L. Brackett, Jr.  | Registration No. (Attorney/Agent) | 36,092 |                |  |
| Signature         |  |                                   | Date   | April 14, 2004 |  |

# FEE TRANSMITTAL FOR FY 2003

*Patent fees are subject to annual revision.*

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** \$810.00

*Complete if Known*

|                      |                         |
|----------------------|-------------------------|
| Application Number   | New Application         |
| Filing Date          | April 14, 2004          |
| First Named Inventor | Michael A. LUCAS et al. |
| Examiner Name        |                         |
| Art Unit             |                         |
| Attorney Docket No.  | 740270-2915             |

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number: 19-2380 (740270-2915)

Deposit Account Name: Nixon Peabody LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description        | Fee Paid |
|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|----------|
| 1001                  | 770                   | 2001                  | 385                   | Utility filing fee     | \$770    |
| 1002                  | 340                   | 2002                  | 170                   | Design filing fee      |          |
| 1003                  | 530                   | 2003                  | 265                   | Plant filing fee       |          |
| 1004                  | 770                   | 2004                  | 385                   | Reissue filing fee     |          |
| 1005                  | 160                   | 2005                  | 80                    | Provisional filing fee |          |

**SUBTOTAL (1)** \$770.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 20                 | -20** = 0    | X              |          |
| Independent Claims | 2            | -3** = 0       | X        |
| Multiple Dependent |              | X              |          |

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description  |
|-----------------------|-----------------------|-----------------------|-----------------------|--|
| 1202                  | 18                    | 2202                  | 9                     | Claims in excess of 20                                     |
| 1201                  | 86                    | 2201                  | 43                    | Independent claims in excess of 3                          |
| 1203                  | 290                   | 2203                  | 145                   | Multiple dependent claim, if not paid                      |
| 1204                  | 86                    | 2204                  | 43                    | ** Reissue independent claims over original patent         |
| 1205                  | 18                    | 2205                  | 9                     | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)** \$

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

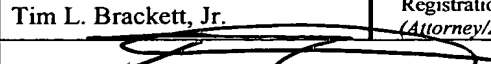
| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description  |
|-----------------------|-----------------------|-----------------------|-----------------------|--|
| 1051                  | 130                   | 2051                  | 65                    | Surcharge - late filing fee or oath  |
| 1052                  | 50                    | 2052                  | 25                    | Surcharge - late provisional filing fee or cover sheet                     |
| 1053                  | 130                   | 1053                  | 130                   | Non-English specification  |
| 1812                  | 2,520                 | 1812                  | 2,520                 | For filing a request for <i>ex parte</i> reexamination                     |
| 1804                  | 920*                  | 1804                  | 920*                  | Requesting publication of SIR prior to Examiner action                     |
| 1805                  | 1,840*                | 1805                  | 1,840*                | Requesting publication of SIR after Examiner action                        |
| 1251                  | 110                   | 2251                  | 55                    | Extension for reply within first month                                     |
| 1252                  | 420                   | 2252                  | 210                   | Extension for reply within second month                                    |
| 1253                  | 950                   | 2253                  | 475                   | Extension for reply within third month                                     |
| 1254                  | 1,480                 | 2254                  | 740                   | Extension for reply within fourth month                                    |
| 1255                  | 2,010                 | 2255                  | 1,005                 | Extension for reply within fifth month                                     |
| 1401                  | 330                   | 2401                  | 165                   | Notice of Appeal   |
| 1402                  | 330                   | 2402                  | 165                   | Filing a brief in support of an appeal                                     |
| 1403                  | 290                   | 2403                  | 145                   | Request for oral hearing   |
| 1451                  | 1,510                 | 1451                  | 1,510                 | Petition to institute a public use proceeding                              |
| 1452                  | 110                   | 2452                  | 55                    | Petition to revive - unavoidable   |
| 1453                  | 1,330                 | 2453                  | 665                   | Petition to revive - unintentional   |
| 1501                  | 1,330                 | 2501                  | 665                   | Utility issue fee (or reissue)   |
| 1502                  | 480                   | 2502                  | 240                   | Design issue fee   |
| 1503                  | 640                   | 2503                  | 320                   | Plant issue fee  |
| 1460                  | 130                   | 1460                  | 130                   | Petitions to the Commissioner  |
| 1807                  | 50                    | 1807                  | 50                    | Processing fee under 37 CFR 1.17(q)  |
| 1806                  | 180                   | 1806                  | 180                   | Submission of Information Disclosure Stmt                                  |
| 8021                  | 40                    | 8021                  | 40                    | Recording each patent assignment per property (times number of properties) |
| 1809                  | 770                   | 2809                  | 385                   | Filing a submission after final rejection (37 CFR 1.129(a))                |
| 1810                  | 770                   | 2810                  | 385                   | For each additional invention to be examined (37 CFR 1.129(b))             |
| 1801                  | 770                   | 2801                  | 385                   | Request for Continued Examination (RCE)                                    |
| 1802                  | 900                   | 1802                  | 900                   | Request for expedited examination of a design application                  |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** \$40.00

## SUBMITTED BY

|                   |   |                                   |        |           |                |
|-------------------|---|-----------------------------------|--------|-----------|----------------|
| Name (Print/Type) | Tim L. Brackett, Jr.  | Registration No. (Attorney/Agent) | 36,092 | Telephone | (202) 585-8000 |
| Signature         |  |                                   |        | Date      | April 14, 2004 |

*Complete (if applicable)*